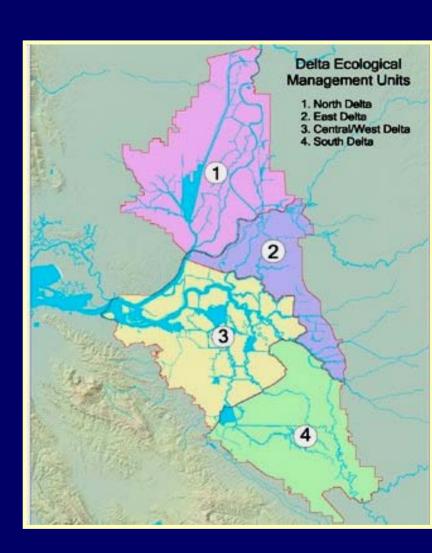


# Delta Regional Ecosystem Restoration Implementation Plan = DRERIP

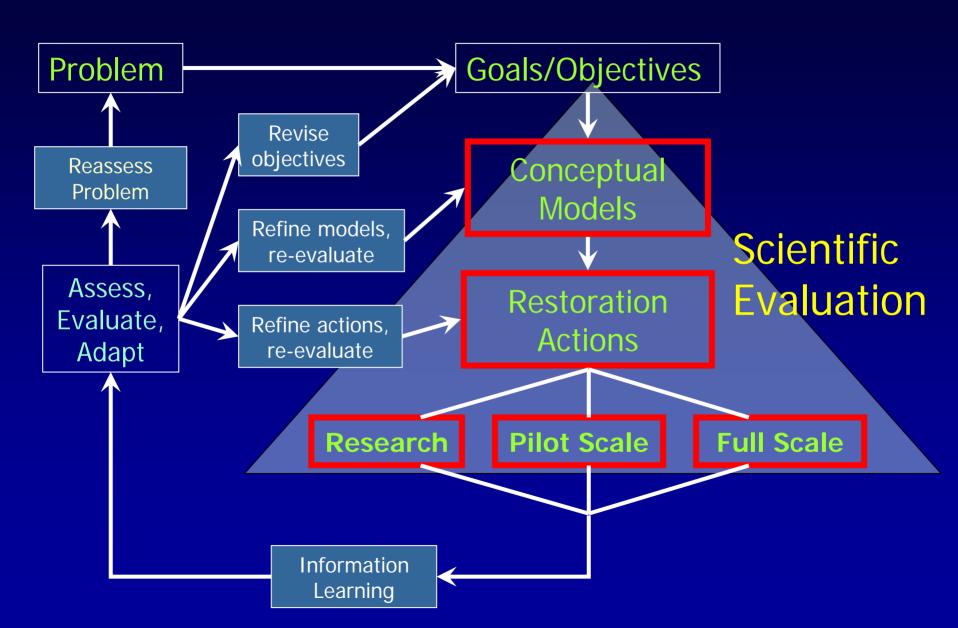
Scientifically evaluates how restoration actions contribute to the needs of the species and the ecosystem that supports them (i.e., recovery).



### Approach

- Foundation in ERP Strategic Plan
- Develop science-based planning tools
  - evaluate actions/measures/activities
  - help set priorities
- Adaptive management
- Engages experts
  - Documents scientific knowledge (conceptual models)
  - Evaluates restoration actions

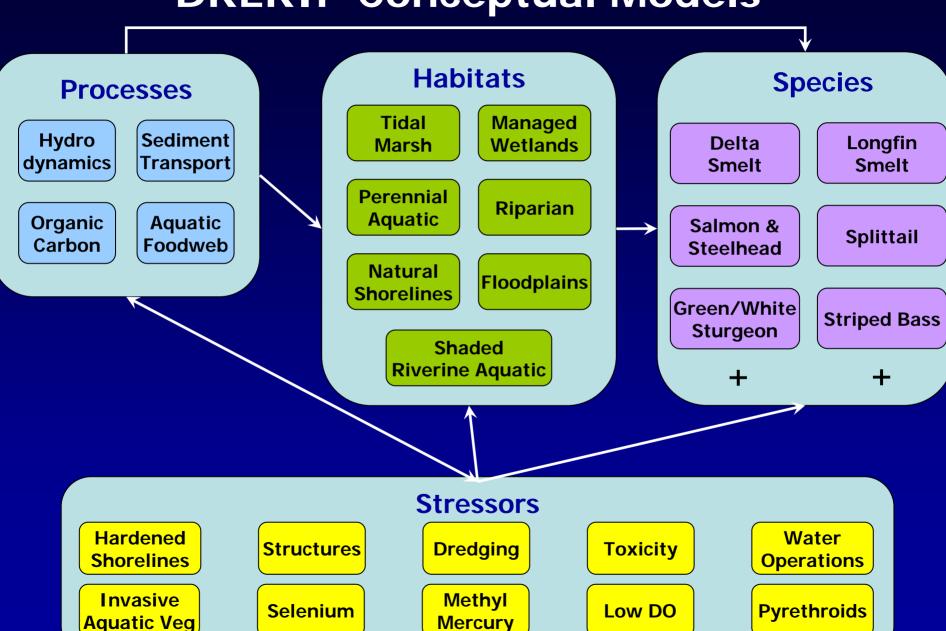
### **Implementing Adaptive Management**



## Scientific Evaluation I Conceptual Models

- Established guidelines to ensure models
  - Articulate species needs
  - Explain how the Delta ecosystem works
- Web-based; tiered/linked
- Developed by Experts
- Externally Peer Reviewed
- Periodically Refined

#### **DRERIP Conceptual Models**



### Model Development Team

George Aiken, USGS Charlie Alpers, USGS Lars Anderson, USDA Susan Anderson, Consultant Betty Andrews, Consultant Mike Archer, MBK Carol Atkins, DFG Bill Beckon, USFWS Bill Bennett, UCD Brian Bergamaschi, USGS Larry Brown, USGS Jon Burau, USGS\* Steve Culberson, CALFED Steven Detwiler, USFWS John Durand, UCD Colin Eagles-Smith, USFWS Chris Enright, DWR Alex Fremier, UCD Jacob Fleck, USGS Chris Foe, CVRWQCB

Roger Fujii, USGS\*

Marty Gingras, DFG Eric Ginney, Consultant Chuck Hanson, Consultant\* Jeff Hart, Consultant Bruce Herbold, USEPA Tracy Hinojosa, DWR Lisa Holm, CALFED Wim Kimmerer, SFSU\* Peter Klimley, UCD Ron Kneib, University of Georgia Marine Institute Karen Larsen, CVRWQCB Regina Linville, SWRQB Sam Luoma, USGS Barbara Marcotte, CALFED Mark Marvin-DiPasquale, USGS Steve Monismith, Stanford Matt Nobriga, CALFED Jeff Opperman, TNC John Oram, SFEI

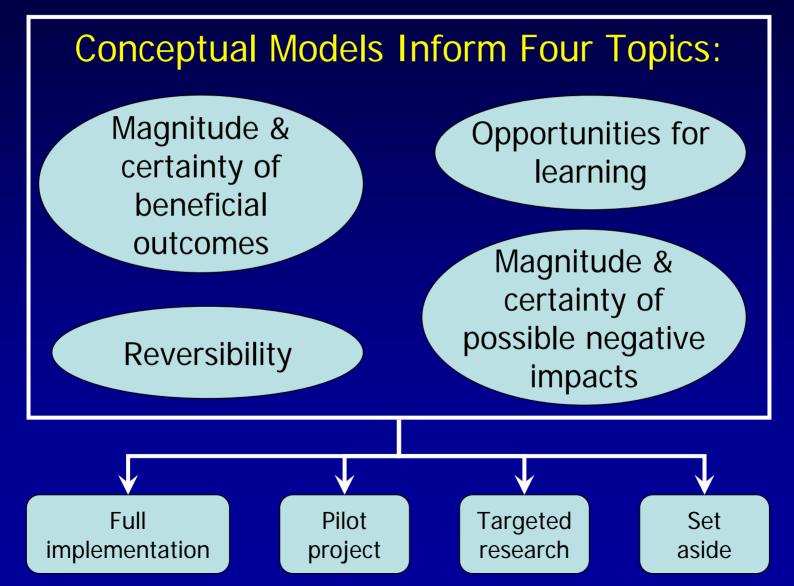
Michelle Orr, Consultant Lloyd Peterson, USBR Theresa Presser, USGS Jon Rosenfield\*, Consultant David Schoellhamer, USGS Stuart Siegel, Consultant\* Si Simenstad, University of Washington Darrel Slotton, U.C. Davis Mark Stacey, U.C. Berkeley Tina Swanson, TBI John Takekawa, USGS Drew Talley, SFBNERR Michael Tansey, USBR Mark Tompkins, Consultant Susan Wainwright De La Cruz, USGS Inge Werner, U.C. Davis Scott Wright, USGS Carolyn Yale, EPA (\* = also involved in DRMS

and/or RDCP)

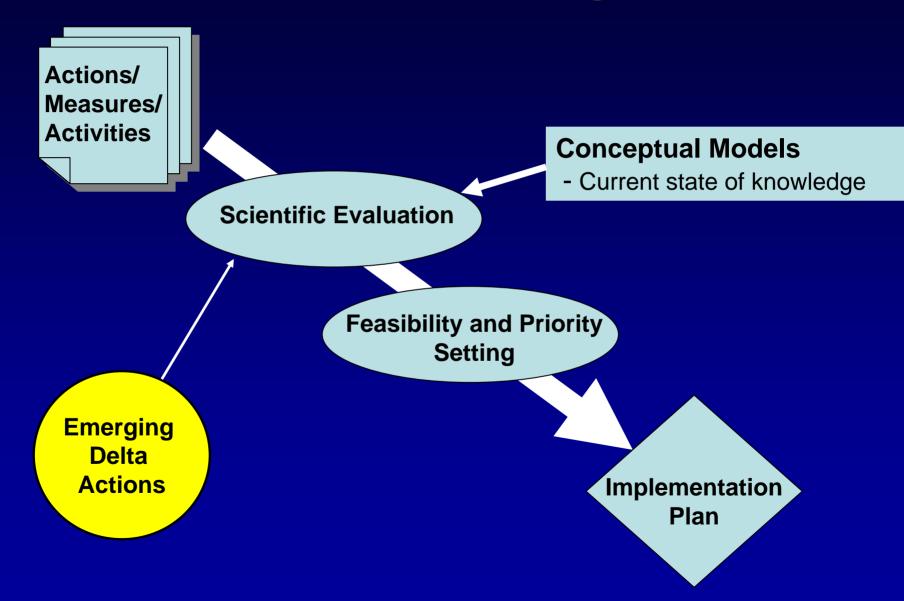
# Scientific Evaluation II Peer Review of Conceptual Models

- Species Models
  - Independent expert review
- Ecosystem Models
  - Interactive Panel Review
  - Panels in April-May
  - Report to Independent Science Board in June 2007

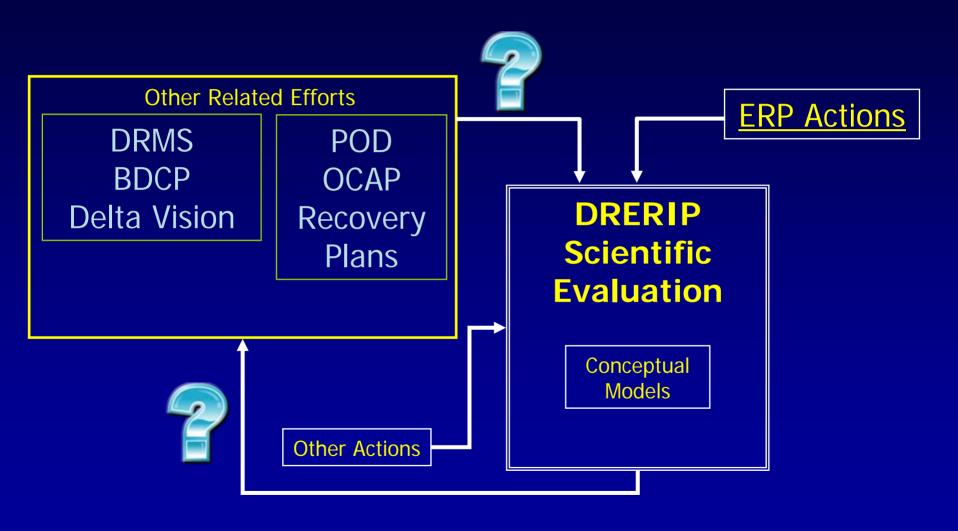
# Scientific Evaluation III Linking Actions with Outcomes



### Science in the Planning Process



#### **Delta Restoration Actions**



### DRERIP Can Provide:

- Strong, peer reviewed science
- Conceptual models to support conservation planning
- Process to evaluate and prioritize conservation measures

### Benefits of Collaboration

- Many Delta experts already engaged
- Conceptual models approaching completion
- Established scientific review processes
- Supported by fish and wildlife agencies
- Common process for conservation planning in the Delta
- Outcomes expedited by pooling resources

### DRERIP Schedule

Convene Action Team to develop initial ecosystem models	August 2006  December 2006
Complete species life history and ecosystem conceptual models	June 2007
Complete actions evaluation	August 2007
Priority setting	September 2007
Draft plan	December 2007